

# INFORMATION DISCLOSURE STATEMENT



SHEET 1 OF 4

Complete if known

Application Number: 09/889,630

Filing Date: July 19, 2001

First Named Inventor: Ming-Fong Lin

Group Art Unit: 1655

Examiner Name: A. Chakrabarti

Attorney Docket Number: 0685-UNMC.6313

RECEIVED  
FEB 04 2002  
TECH CENTER 1608/900

## UNITED STATES PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | PATENT NUMBER | ISSUE DATE<br>MM-DD-YYYY | FIRST NAMED INVENTOR |
|---------------------|----------|---------------|--------------------------|----------------------|
|                     |          |               |                          |                      |

## FOREIGN PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | DOCUMENT NUMBER | COUNTRY OR REGION | DATE OF PUBLICATION<br>MM-DD-YYYY | FIRST NAMED INVENTOR OR APPLICANT |
|---------------------|----------|-----------------|-------------------|-----------------------------------|-----------------------------------|
|                     |          |                 |                   |                                   |                                   |

## OTHER PRIOR ART - NON-PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|---------------------|----------|--|
| WAC                 | C1       | LILJA, H. et al., "Three Predominant Proteins Secreted by the Human Prostate Gland"; The Prostate, 12: 29-38 (1988)  |
|                     | C2       | BANAS, B. et al., "Analysis of the promoter of the human prostatic acid phosphatase gene"; Biochimica et Biophysica Acta 1217: 188-194 (1994)  |
|                     | C3       | CLARKE, R. et al., "Progression of human breast cancer cells from hormone-dependent to hormone-independent growth both <i>in vitro</i> and <i>in vivo</i> "; Proc. Natl. Acad. Sci., 86: 3649-3653 (1989)  |
|                     | C4       | CLEUTJENS, K.B.J.M. et al., "An Androgen Response Element in a Far Upstream Enhancer Region is Essential for High, Androgen-Regulated Activity of the Prostate-Specific Antigen Promoter"; Molecular Endocrinology, Vol. 11 No. 2, 148-161 (1997)              |
|                     | C5       | COHEN, P., "Classification of Protein-Serine/Threonine Phosphatases: Identification and Quantitation in Cell Extracts"; Methods in Enzymology, Vol. 201, 389-398 (1991)  |
|                     | C6       | CULIG, Z., et al., "DNA Sequence of the Androgen Receptor in Prostatic Tumor Cell Lines and Tissue Specimens Assessed by Means of the Polymerase Chain Reaction"; The Prostate, 22: 11-22 (1993)   |
| AC                  | C7       | GARCIA-ARENAS, R. et al., "The expression of prostatic acid phosphatase is transcriptionally regulated in human prostate carcinoma cells"; Molecular and Cellular Endocrinology, 111: 29-37 (1995)   |

EXAMINER'S  
SIGNATURE

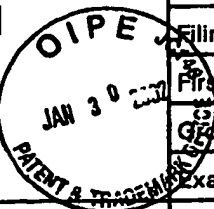
Arjun Kr. Chakrabarti

DATE  
CONSIDERED

2/15/05  
9/24/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT



Complete if known

Application Number: 09/889,630

Filing Date: July 19, 2001

First Named Inventor: Ming-Fong Lin

Group Art Unit: 1655

Examiner Name: A. Chakrabarti

SHEET 2 OF 4

Attorney Docket Number: 0685-UNMC.63 US

RECEIVED  
FEB 04 2002  
TECH CENTER 1600/2580

|       |     |  |
|-------|-----|--|
| EW AC | C8  | GITTES, R.F., "Carcinoma of the Prostate"; The New England Journal of Medicine, Vol. 324, No. 4, 236-245 (1991)  |
|       | C9  | GHOSH-CHOUDHURY, G. et al., "Stable Transfer of a Mouse Dihydrofolate Reductase Gene into a Deficient Cell Line Using Human Adenovirus Vector"; Biochemical and Biophysical Research Communications, Vol. 147, No. 3, 964-973 (1987)         |
|       | C10 | GRAYHACK, J.T. et al., "Carcinoma of the Prostate, Hormonal Therapy"; Cancer 60: 589-601 (1987)  |
|       | C11 | GRUPPUSO, P.A. et al., "Growth Arrest Induced by Transforming Growth Factor $\beta$ 1 Is Accompanied by Protein Phosphatase Activation in Human Keratinocytes"; The Journal of Biological Chemistry, Vol. 266, No. 6, 3444-3448 (1991)       |
|       | C12 | LANGELER, E.G. et al., "Effect of Culture Conditions on Androgen Sensitivity of the Human Prostatic Cancer Cell Line LNCaP"; The Prostate 23: 213-223 (1993)   |
|       | C13 | LI, H. et al., "A phosphotyrosyl-protein phosphatase activity associated with acid phosphatase from human prostate gland"; Eur. J. Biochem. 138: 45-51 (1984)  |
|       | C14 | LIN, M. et al., "The Epidermal Growth Factor Receptor from Prostate Cells Is Dephosphorylated by a Prostate-Specific Phosphotyrosyl Phosphatase"; Molecular and Cellular Biology, Vol. 8, No. 12, 5477-5485 (1988)                           |
|       | C15 | LIN, M. et al., "Human Prostatic Acid Phosphatase and Its Phosphotyrosyl-Protein Phosphatase Activity"; Adv. Prot. Phosphatases 4, 199-228 (1987)  |
|       | C16 | LIN, M. et al., "Effect of cell density on androgen regulation of the mRNA level of human prostatic acid phosphatase"; Molecular and Cellular Endocrinology, 99: R21-R24 (1994)  |
|       | C17 | LIN, M. et al., "Tyrosine Phosphorylation of a 185 kDa Phosphoprotein (pp185) Inversely Correlates with the Cellular Activity of Human Prostatic Acid Phosphatase"; Biochemical and Biophysical Research Communications, 226: 206-213 (1996) |
|       | C18 | LIN, M. et al., "Regulation of the Expression of Prostatic Acid Phosphatase in LNCaP Human Prostate Carcinoma Cells"; Cellular and Molecular Biology Research, Vol. 39, No. 8, 739-750 (1993)  |
|       | C19 | LIN, M. et al., "Growth Inhibition of Androgen-Insensitive Human Prostate Carcinoma Cells by a 19-Norsteroid Derivative Agent, Mifepristone"; The Prostate 26: 194-204 (1995)  |
|       | C20 | LIN, M. et al., "Human prostatic acid phosphatase has phosphotyrosyl phosphatase activity"; Biochem. J., 235: 351-357 (1986)   |
| ✓     | C21 | HOROSZEWICZ, J.S. et al., "LNCaP Model of Human Prostatic Carcinoma"; Cancer Research, 43: 1809-1818 (1983)  |
| ✓ AC  | C22 | LIN, M. et al., "Tyrosyl Kinase Activity Is Inversely Related to Prostatic Acid Phosphatase Activity in Two Human Prostate Carcinoma Cell Lines"; Molecular and Cellular Biology, Vol. 6., No. 12, 4753-4757 (1986)                          |

|                      |                     |                 |                    |
|----------------------|---------------------|-----------------|--------------------|
| EXAMINER'S SIGNATURE | Arun K. Chakrabarti | DATE CONSIDERED | 2/15/05<br>9/24/02 |
|----------------------|---------------------|-----------------|--------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.

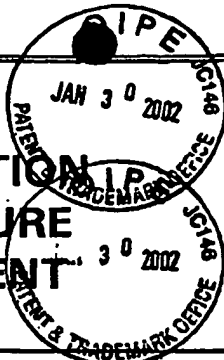
|   |   |  |
|---|---|--|
| <b>INFORMATION<br/>DISCLOSURE<br/>STATEMENT</b> | <i>Complete if known</i>                  |  |
|   | Application Number: 09/889,630            | <b>RECEIVED</b><br>FEB 04 2002<br>TECH CENTER 1600/290 |
|   | Filing Date: July 19, 2001                |  |
|   | First Named Inventor: Ming-Fong Lin       |  |
|   | Group Art Unit: 1655                      |  |
| Examiner Name: A. Chakrabarti                   | Attorney Docket Number: 0685-UNMC.63131US |  |
| SHEET 3 OF 4                                    |   |  |

|        |     |  |
|--------|-----|--|
| gww AC | C23 | LIN, M. et al., "Expression of Human Prostatic Acid Phosphatase Correlates with Androgen-stimulated Cell Proliferation in Prostate Cancer Cell Lines"; The Journal of Biological Chemistry, Vol. 273, No. 10, 5939-5947 (1998) |
|        | C24 | LIN, M. et al., "The cellular level of prostatic acid phosphatase and the growth of human prostate carcinoma cells"; Differentiation, 57: 143-149 (1994)   |
|        | C25 | LIN, M. et al., "Cationic Liposome-Mediated Incorporation of Prostatic Acid Phosphatase Protein Into Human Prostate Carcinoma Cells"; Biochemical and Biophysical Research Communications, Vol. 192, No. 2, 413-419 (1993)     |
|        | C26 | LIN, M. et al., "Regulation of Prostatic Acid Phosphatase Expression and Secretion by Androgen in LNCaP Human Prostate Carcinoma Cells"; Archives of Biochemistry and Biophysics, Vol. 300, No. 1, 384-390 (1993)              |
|        | C27 | LIN, M. et al., "Expression of Human Prostatic Acid Phosphatase Activity and the Growth of Prostate Carcinoma Cells"; Cancer Research, 52: 4600-4607 (1992)  |
|        | C28 | LIN, M. et al., "Purification and Characterization of a New Human Prostatic Acid Phosphatase Isoenzyme"; Biochemistry, 22: 1055-1062 (1983)  |
|        | C29 | MENG, T., "Tyrosine Phosphorylation of c-ErbB-2 Is Regulated by the Cellular Form of Prostatic Acid Phosphatase in Human Prostate Cancer Cells"; The Journal of Biological Chemistry, Vol. 273, No. 34, 22096-22104 (1998)     |
|        | C30 | OSTANIN, K. et al., "Heterologous Expression of Human Prostatic Acid Phosphatase and Site-directed Mutagenesis of the Enzyme Active Site"; The Journal of Biochemical Chemistry, Vol. 269, No. 12, 8971-8978 (1994)            |
|        | C31 | PANG, S. et al., "Identification of a Positive Regulatory Element Responsible for Tissue-specific Expression of Prostate-specific Antigen"; Cancer Research, 57: 495-499 (1997)  |
|        | C32 | PORVARI, K. et al., "Differential Androgen Regulation of Rat Prostatic Acid Phosphatase Transcripts"; Biochemical and Biophysical Research Communications, Vol. 213, No. 3, 861-868 (1995)                                     |
|        | C33 | RUIZEVELD DE WINTER, J.A. et al., "Androgen Receptor Heterogeneity in Human Prostatic Carcinomas Visualized by Immunohistochemistry"; Journal of Pathology, Vol. 161: 329-332 (1990)   |
|        | C34 | SAKAI, H. et al., "Prostate Specific Antigen and Prostatic Acid Phosphatase Immunoreactivity as Prognostic Indicators of Advanced Prostatic Carcinoma"; The Journal of Urology, Vol. 149, 1020-1023 (1993)                     |
| gww AC | C35 | SCHNEIDER, G. et al., "Three-dimensional structure of rat acid phosphatase"; The EMBO Journal, Vol. 12, No. 7, 2609-2615 (1993)  |

|  |  |
|--|--|
| EXAMINER'S<br>SIGNATURE<br> | DATE<br>CONSIDERED<br>2/15/05<br>9/24/02 |
|--|--|

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT



SHEET 4 OF 4

Complete if known

Application Number: 09/889,630

Filing Date: July 19, 2001

First Named Inventor: Ming-Fong Lin

Group Art Unit: 1655

Examiner Name: A. Chakrabarti

Attorney Docket Number: 0685-UNMC.63131

TECH CENTER 1600/2901

FEB 04 2002

RECEIVED

|      |     |  |
|------|-----|--|
| EWAC | C36 | SHAN, J. et al., "Steroid-Involved Transcriptional Regulation of Human Genes Encoding Prostatic Acid Phosphatase, Prostate-Specific Antigen, and Prostate-Specific Glandular Kallikrein"; Endocrinology, Vol. 138, No. 9, 3764-3770 (1997)                             |
|      | C37 | SHARIEF, F.S. et al., "Nucleotide Sequence of Human Prostatic Acid Phosphatase ACPG Gene, Including Seven ALU Repeats"; Biochemistry and Molecular Biology International, Vol. 33, No. 3, 561-565 (1994)   |
|      | C38 | SINHA, A.A. et al., "Relationship of Prostatic Acid Phosphatase Localization in Human Prostate by a Monoclonal Antibody With the Gleason Grading System"; The Prostate, 13: 1-15 (1988)  |
|      | C39 | SOLIN, T. et al., "Gene expression and prostate specificity of human prostatic acid phosphatase (PAP): evaluation by RNA blot analyses"; Biochimica et Biophysica Acta, 1048: 72-77 (1990)   |
|      | C40 | SUZUKI, H. et al., "Inhibition of Growth and Increase of Acid Phosphatase by Testosterone on Androgen-Independent Murine Prostatic Cancer Cells Transfected With Androgen Receptor cDNA"; The Prostate, 25: 310-319 (1994)   |
|      | C41 | VALENCIA, A. et al., "Identification of a protein-tyrosine phosphatase (SHP1) different from that associated with acid phosphatase in rat prostate"; FEBS Letters, 406: 42-48 (1997)   |
|      | C42 | VAN DER KWAST, T.H. et al., "Androgen Receptors in Endocrine-Therapy-Resistant Human Prostate Cancer"; Int. J. Cancer, 48: 189-193 (1991)  |
|      | C43 | VIRKKUNEN, P. et al., "Structural Comparison of Human and Rat Prostate-Specific Acid Phosphatase Genes and Their Promoters: Identification of Putative Androgen Response Elements"; Biochemical and Biophysical Research Communications, Vol. 202, No. 1, 49-57 (1994) |
| WAC  | C44 | SHAW, L.M. et al., "Immunological and Clinical-Specificity of the Immunochemical Determination of Prostatic Acid Phosphatase"; Annals New York Academy of Sciences, 390: 73-88 (1982)  |
|      | C45 | SAKAI, H. et al., "Immunohistochemical Prostatic Acid Phosphatase Level as a Prognostic Factor of Prostatic Carcinoma"; The Prostate, 19: 265-272 (1991)   |

|                      |                            |                 |                    |
|----------------------|----------------------------|-----------------|--------------------|
| EXAMINER'S SIGNATURE | <i>Arun K. Chakrabarti</i> | DATE CONSIDERED | 2/15/05<br>9/27/02 |
|----------------------|----------------------------|-----------------|--------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 5609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.